



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Otto Z. Zhou et al.

Application No.: 10/051,183

Filed: January 22, 2002

For: LARGE-AREA INDIVIDUALLY  
ADDRESSABLE MULTI-BEAM X-RAY  
SYSTEM AND METHOD OF FORMING  
SAME

) **MAIL STOP ISSUE FEE**

) Group Art Unit: 2882

) Examiner: Hoon K. SONG

) Confirmation No.: 9917

**REQUEST TO COMPLETE NOTICE OF ALLOWANCE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In reviewing the application identified above upon allowance, the undersigned has noted:

- ☐ The Notice of Allowance shows the following discrepancy(ies):  
Type Discrepancy(ies)

The U.S. Patent and Trademark Office is therefore requested to correct this discrepancy and issue a corrected Notice of Allowance.

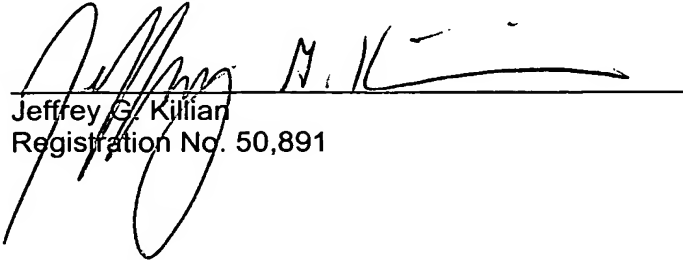
- ☐ The priority document filed \_\_\_ has not been acknowledged by the U.S. Patent and Trademark Office. Acknowledgement of this priority document is respectfully requested.

- ☒ The Form PTO-1449 submitted with the Information Disclosure Statement(s) filed on November 18, 2002, April 18, 2003, and March 18, 2004 have not yet been returned. It is therefore respectfully requested that this form(s) be returned as soon as possible indicating consideration of the document(s) mentioned thereon.

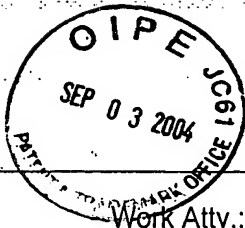
Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: September 3, 2004

By:   
Jeffrey G. Killian  
Registration No. 50,891

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



Inventor: Otto Z. ZHOU et al.

Appln. No.: 10/051,183

Filing Date: January 22, 2002

Docket No.: 032566-017

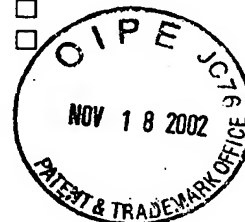
Work Atty.: JGK/geh

Date: November 18, 2002



The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Amendment or Response  | <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Certificate Under 37 C.F.R. § 3.73(b) | <input type="checkbox"/> Check for \$__ is enclosed   |
| <input type="checkbox"/> Preliminary Amendment  | <input type="checkbox"/> Transmittal Letter for Missing Parts of Application                                | <input type="checkbox"/> Check for \$__ is enclosed <b>21</b>                                   |
| <input type="checkbox"/> Reply Transmittal Letter   | <input type="checkbox"/> Executed Declaration/Power of Attorney   | <input type="checkbox"/> Charge \$__ to Deposit Account   |
| <input type="checkbox"/> Petition for __ Month Extension of Time                                  | <input type="checkbox"/> Assignment/Assignment Recordation Form Cover Sheet (PTO-1595)                      | <input type="checkbox"/> Issue Fee Transmittal  |
| <input type="checkbox"/> Submission of Formal Drawings w/_ sheet(s) of drawings (Fig(s). 1-__)    | <input type="checkbox"/> Claim for Convention Priority w/_ certified copy(s)                                | <input type="checkbox"/> Payment of Issue Fee and Authorization to charge Deposit Account       |
| <input type="checkbox"/> Request for Approval of Drawing Changes w/_ sheet(s) of red ink drawings | <input checked="" type="checkbox"/> Information Disclosure Statement w/_ 1 document(s)                      | <input type="checkbox"/> Request for Refund   |
| <input type="checkbox"/> Notice of Appeal   | <input checked="" type="checkbox"/> Information Disclosure Citation (PTO-1449)                              | <input type="checkbox"/> Status Inquiry   |
| <input type="checkbox"/> Brief for Appellant  | <input checked="" type="checkbox"/> Information Disclosure Statement Transmittal Letter                     | <input type="checkbox"/> Request for Corrected Filing Receipt w/copy of Official Filing Receipt |
| <input type="checkbox"/> Request for Oral Hearing   | <input type="checkbox"/> Request for Corrected Notice of Recordation of Assignment w/copy of Notice         | <input type="checkbox"/>  |
| <input type="checkbox"/> Reply Brief  | <input type="checkbox"/> Request for Continued Examination  | <input type="checkbox"/>  |
| <input type="checkbox"/> Response to Restriction Requirement or Election of Species               |   | <input type="checkbox"/>  |



(10/00)

55

BEST AVAILABLE COPY



Patent  
Attorney's Docket No. 032566-017

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Otto Z. ZHOU et al.

Application No.: 10/051,183

Filed: January 22, 2002

For: LARGE-AREA INDIVIDUALLY  
ADDRESSABLE MULTI-BEAM X-RAY  
SYSTEM AND METHOD OF  
FORMING SAME

Group Art Unit: 2882

Examiner: Unassigned

Confirmation No.: 9917

**INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$ \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$ \_\_\_\_\_ is enclosed for the fee due.

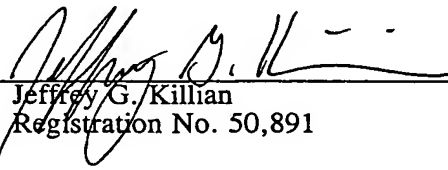
The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

By:

  
Jeffrey G. Killian  
Registration No. 50,891

Date: November 18, 2002

11-18-02JD



Patent  
Attorney's Docket No. 032566-017

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of )  
 )  
Otto Z. ZHOU et al. ) Group Art Unit: 2882  
 )  
Application No.: 10/051,183 ) Examiner: Unassigned  
 )  
Filed: January 22, 2002 ) Confirmation No.: 9917  
 )  
For: LARGE-AREA INDIVIDUALLY )  
ADDRESSABLE MULTI-BEAM X-RAY )  
SYSTEM AND METHOD OF )  
FORMING SAME )

**SECOND**  
**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The document is being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore under 37 C.F.R. § 1.97(b) no fee or statement is required.

To assist the Examiner, the document is listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: November 18, 2002

By: 

Jeffrey G. Killian  
Registration No. 50,891

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

Substitute for forms 1449A/PTO &amp; 1449B/PTO

**SECOND INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

ATTORNEY'S DKT No.  
032566-017

APPLICATION No.  
10/051,183

APPLICANT  
Otto Z. ZHOU et al.

FILING DATE  
January 22, 2002

GROUP  
2882

**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)	Filing Date If Appropriate (MM-DD-YYYY)
	6,456,691	B2	TAKAHASHI et al.	09-24-2002	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation Yes No

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

Examiner  
Signature

Date  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Inventor: Otto Z. ZHOU et al.

Appln. No.: 10/051,183

Filing Date: January 22, 2002

Docket No.: 032566-017

Work Atty.: JGK/geh

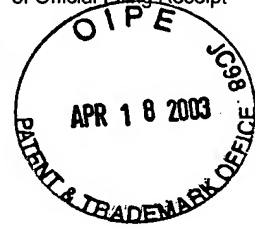
Date: April 18, 2003



The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

3

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Amendment or Response  | <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Certificate Under 37 C.F.R. § 3.73(b) | <input type="checkbox"/> Check for \$__ is enclosed   |
| <input type="checkbox"/> Preliminary Amendment  | <input type="checkbox"/> Transmittal Letter for Missing Parts of Application                                | <input type="checkbox"/> Check for \$__ is enclosed   |
| <input type="checkbox"/> Reply Transmittal Letter   | <input type="checkbox"/> Executed Declaration/Power of Attorney   | <input type="checkbox"/> Charge \$__ to Deposit Account   |
| <input type="checkbox"/> Petition for _ Month Extension of Time                                   | <input type="checkbox"/> Assignment/Assignment Recordation Form Cover Sheet (PTO-1595)                      | <input type="checkbox"/> Issue Fee Transmittal  |
| <input type="checkbox"/> Submission of Formal Drawings w/_ sheet(s) of drawings (Fig(s). 1-_)     | <input type="checkbox"/> Claim for Convention Priority w/_ certified copy(s)                                | <input type="checkbox"/> Payment of Issue Fee and Authorization to charge Deposit Account       |
| <input type="checkbox"/> Request for Approval of Drawing Changes w/_ sheet(s) of red ink drawings | <input checked="" type="checkbox"/> Information Disclosure Statement w/_ 3 document(s)                      | <input type="checkbox"/> Request for Refund   |
| <input type="checkbox"/> Notice of Appeal   | <input checked="" type="checkbox"/> Information Disclosure Citation (PTO-1449)                              | <input type="checkbox"/> Status Inquiry   |
| <input type="checkbox"/> Brief for Appellant  | <input checked="" type="checkbox"/> Information Disclosure Statement Transmittal Letter                     | <input type="checkbox"/> Request for Corrected Filing Receipt w/copy of Official Filing Receipt |
| <input type="checkbox"/> Request for Oral Hearing   | <input type="checkbox"/> Request for Corrected Notice of Recordation of Assignment w/copy of Notice         | <input type="checkbox"/>  |
| <input type="checkbox"/> Reply Brief  | <input type="checkbox"/> Request for Continued Examination  | <input type="checkbox"/>  |
| <input type="checkbox"/> Response to Restriction Requirement or Election of Species               |   | <input type="checkbox"/>  |



(10/00)

41 (3)



Patent  
Attorney's Docket No. 032566-017

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)	
Otto Z. ZHOU et al.	)	Group Art Unit: 2882
Application No.: 10/051,183	)	Examiner: Unassigned
Filed: January 22, 2002	)	Confirmation No.: 9917
For: LARGE-AREA INDIVIDUALLY	)	
ADDRESSABLE MULTI-BEAM X-RAY	)	
SYSTEM AND METHOD OF	)	
FORMING SAME	)	

**INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \$\_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of \$\_\_\_\_\_ is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620

Date: April 18, 2003

By: \_\_\_\_\_

Jeffrey G. Killian  
Registration No. 50,891



Patent  
Attorney's Docket No. 032566-017

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	
	)	
Otto Z. ZHOU et al.	)	Group Art Unit: 2882
	)	
Application No.: 10/051,183	)	Examiner: Unassigned
	)	
Filed: January 22, 2002	)	Confirmation No.: 9917
	)	
For: LARGE-AREA INDIVIDUALLY	)	
ADDRESSABLE MULTI-BEAM X-RAY	)	
SYSTEM AND METHOD OF	)	
FORMING SAME	)	

**THIRD**  
**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Also enclosed is a copy of an International Search Report issued in connection with the corresponding PCT application. U.S. Patent No. 6,456,691 B2 was submitted with the Information Disclosure Statement filed in the above-captioned application on November 18, 2002.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since the documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b) no fee or statement is required.

I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than 30 (thirty) days prior to the filing of this Information Disclosure Statement.



To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: April 18, 2003

By:  B.V.

Jeffrey G. Killian  
Registration No. 50,891

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620





Patent Response Postcard

39

Inventor: Otto Z. ZHOU et al. Appln. No.: 10/051,183 Filing Date: January 22, 2002  
Docket No.: 032566-017 Working Atty.: SJT Date: March 18, 2004  
Dkt. Clerk Initials: JD

The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Amendment or Response   | <input type="checkbox"/> Transmittal Letter for Missing Parts of Application                                    | <input type="checkbox"/> Payment of Issue Fee and Authorization to charge Deposit Account       |
| <input type="checkbox"/> Preliminary Amendment   | <input type="checkbox"/> Executed Declaration/Power of Attorney   | <input type="checkbox"/> Request for Refund   |
| <input type="checkbox"/> Amendment/Reply Transmittal Letter  | <input type="checkbox"/> Assignment/Assignment Recordation Form Cover Sheet (PTO-1595)                          | <input type="checkbox"/> Request for Corrected Filing Receipt w/copy of Official Filing Receipt |
| <input type="checkbox"/> Petition for <u>      </u> Month Extension of Time  | <input type="checkbox"/> Submission of Certified Copy of Priority Document w/ <u>      </u> certified copy(ies) | <input type="checkbox"/> Substitute Specification (clean/marked copies)                         |
| <input type="checkbox"/> Submission of Formal Drawings w/ <u>      </u> sheet(s) of drawings (Fig(s). 1- <u>      </u> ) | <input checked="" type="checkbox"/> Information Disclosure Statement Transmittal                                | <input type="checkbox"/> Check for \$ <u>      </u> is enclosed                                 |
| <input type="checkbox"/> Request for Approval of Drawing Changes w/ <u>      </u> sheet(s) of red ink drawings           | <input checked="" type="checkbox"/> Information Disclosure Citation (PTO-1449)                                  | <input checked="" type="checkbox"/> Check for \$ <u>180.00</u> is enclosed                      |
| <input type="checkbox"/> Notice of Appeal  | <input checked="" type="checkbox"/> Information Disclosure Statement w/ <u>1</u> document(s)                    | <input type="checkbox"/> Charge \$ <u>      </u> to Deposit Account                             |
| <input type="checkbox"/> Brief for Appellant   | <input type="checkbox"/> Request for Corrected Notice of Recordation of Assignment w/Copy of Notice             | <input type="checkbox"/> Filed by Certificate of Mail   |
| <input type="checkbox"/> Request for Oral Hearing  | <input type="checkbox"/> Request for Continued Examination  | <input type="checkbox"/>  |
| <input type="checkbox"/> Reply Brief   | <input type="checkbox"/> Issue Fee Transmittal  | <input type="checkbox"/>  |
| <input type="checkbox"/> Response to Restriction Requirement or Election of Species                                      | <input type="checkbox"/> Status Inquiry   | <input type="checkbox"/>  |
| <input type="checkbox"/> Terminal Disclaimer   | <input type="checkbox"/> Submission of Corrected Drawings   | <input type="checkbox"/>  |
| <input type="checkbox"/> Certificate Under 37 C.F.R. 3.73(b)   |   | <input type="checkbox"/>  |

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Express Mail Mailing Label No.



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Otto Z. ZHOU et al.

Group Art Unit: 2882

Application No.: 10/051,183

Examiner: Hoon K. Song

Filing Date: January 22, 2002

Confirmation No.: 9917

Title: LARGE-AREA INDIVIDUALLY ADDRESSABLE MULTI-BEAM X-RAY SYSTEM AND METHOD OF FORMING SAME

FIFTH  
INFORMATION DISCLOSURE STATEMENT  
TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a Fifth Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☐ No additional fee for submission of an IDS is required.
- ☒ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge \_\_\_\_\_ to Deposit Account No. 02-4800 for the fee due.
- ☒ A check in the amount of \$ 180.00 is enclosed for the fee due.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

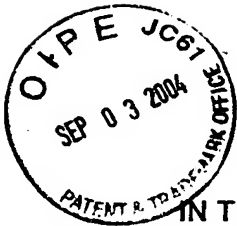
BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(919) 941-9240

Date: March 18, 2004

By

Stephen J. Pytran  
Registration No. 45,846



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)	
Otto Z. ZHOU et al.	)	Group Art Unit: 2882
Application No.: 10/051,183	)	Examiner: Hoon K. Song
Filed: January 22, 2002	)	Confirmation No.: 9917
For: LARGE-AREA INDIVIDUALLY	)	
ADDRESSABLE MULTI-BEAM X-RAY	)	
SYSTEM AND METHOD OF FORMING	)	
SAME	)	

**FIFTH INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of the document cited is enclosed.

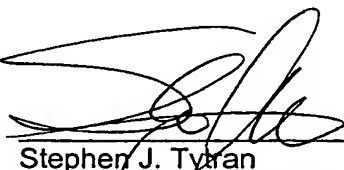
The documents are being submitted after a first Office Action on the merits but prior to the closing of prosecution, therefore under 37 C.F.R. § 1.97(c), the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is enclosed.

To assist the Examiner, the document is listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date March 18, 2004

By:   
Stephen J. Tyrant  
Registration No. 45,846

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(919) 941-9240

**FIFTH**  
**INFORMATION DISCLOSURE**  
**STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

Application Number

10/051,183

Filing Date

January 22, 2002

First Named Inventor

Otto Z. ZHOU et al.

Examiner Name

Hoon K. Song

Attorney Docket Number

032566-017

## U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	2003/0002627		Espinosa et al.	01/02/2003

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	
					Yes	No

## NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

Examiner Signature

Date

Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.